



**JOB SAFETY
ANALYSIS**

JOB TITLE: Surveying with Total Station		PAGE: 1 OF 2	DATE: 16 July '13	JSA NO.: 1 REV: 1 References:
TITLE OF PERSON WHO DOES JOB: SE, APE, PE		SUPERVISOR: PE		ANALYSIS BY: C. Ebner J. Miller & M. Patria
LOCATION: Passaic River	DEPARTMENT OR PROJECT: Survey		PROJECT NUMBER: 15368	

REQUIRED AND/OR RECOMMENDED PERSONAL EQUIPMENT: Hardhat, PFD, Safety Glasses, Rubber Boots, Gloves, and Snowshoes	APPROVED BY:
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SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED ACTION OR PROCEDURE
1) Gathering Materials	Slips, trips & falls	Keep good housekeeping procedures
		Remove tripping hazards
		Work slowly and carefully
	Transferring onto boat	Wear PFD
		Pass items onto the boat to leave hands free
		Multi-person lifts if necessary
		Take additional trips
2) Setting up Total Station	Pinch Points	Wear the proper hand protection
		Know where your hands are at all times
		Keep hands away from known pinch points
	Sharp Points	Use caution when carrying tripod/bipod
	Sprains and Strains	Use proper lifting techniques
		Keep your back straight and load close to your body
		Do not twist while carrying a load
	Muddy Conditions	Understand where you are at all times
		Keep solid footing
	Environmental Hazards	Do not setup/use when lightning is in the area
		Know the tides
		Wear rubber boots when working on the river bank

SIGNATURES REQUIRED FOR JSA MEETING	ALL WORK MUST STOP IF YOU DEVIATE FROM THE JSA PLAN
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SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED ACTION OR PROCEDURE
3) Surveying	Slips, Trips, and Falls	Walk slowly when in water or mud
		Keep solid footing
		Use the prism pole to test the bottom before stepping
		Use the prism pole for extra support
	Drowning	Do not survey the tidal flats in rough weather conditions
		Keep a ring buoy on jonboat
		Ensure the jon boat is close for assistance
		Keep constant communication with observer
	Environmental Condtions	Be aware of tides and currents
		Take plenty of breaks when the temperature rises
		Keep hydrated
		Switch observer and surveyor if needed
		Stop surveying if lightning is detected in the area
		Wear bug spray
4) Decontamination	Contaminated material	Wear rubber gloves
		Clean equipment with soap/water when finished
		Don't touch material until it has been decontaminated
		Use rubber boots dedicated to task